

# Autumn IPA

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- Gravity **11.9 BLG**
- ABV **4.8 %**
- IBU **48**
- SRM **4.5**
- Style **Rye IPA**

## Batch size

- Expected quantity of finished beer **23 liter(s)**
- Trub loss **5 %**
- Size with trub loss **25.3 liter(s)**
- Boil time **60 min**
- Evaporation rate **5 %/h**
- Boil size **27.7 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **4 liter(s) / kg**
- Mash size **22 liter(s)**
- Total mash volume **27.5 liter(s)**

## Steps

- Temp **68 C**, Time **60 min**
- Temp **78 C**, Time **10 min**

## Mash step by step

- Heat up **22 liter(s)** of strike water to **74C**
- Add grains
- Keep mash **60 min** at **68C**
- Keep mash **10 min** at **78C**
- Sparge using **11.2 liter(s)** of **76C** water or to achieve **27.7 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Żytni	1 kg (18.2%)	81.2 %	8
Grain	Strzegom Pale Ale	4 kg (72.7%)	79 %	6
Grain	Płatki owsiane	0.5 kg (9.1%)	85 %	3

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Galaxy	25 g	60 min	14.5 %
Boil	Galaxy	25 g	10 min	14.5 %
Dry Hop	Equinox	50 g	7 day(s)	13.1 %
Dry Hop	Citra	25 g	7 day(s)	13.5 %
Dry Hop	Centennial	25 g	7 day(s)	9.4 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Dry	11.5 g	Fermentis